

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/615,830	KIM ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Dmitry Suhol	3725	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to applicant's amendment filed 10/24/05.
2. ☒ The allowed claim(s) is/are 1,3,4,6,8 and 9.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                     | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

*D. Suhol*  
D. Suhol

### REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The specific limitations of (with respect to claim 1) "...wherein said first and second conductive electrode means respectively consist of a pair of plate-shaped contact members which are disposed contactingly above and below said metal strip, each said contact member including a first contact portion contacting said metal strip, a second contact portion contacting said metal strip at a position closer to said work rolls than said first contact portion, and a flat portion for connecting said first contact portion and said second portion while being spaced apart from said metal strip" and (with respect to claim 6) "...and wherein conductive electrode means consists of a pair of plate-shaped contact members which are disposed contactingly above and below said metal strip, each said contact member including a first contact portion contacting said metal strip, a second contact portion contacting said metal strip at a position closer to said work rolls than said first contact portion, and a flat portion for connecting said first contact portion and said second portion while being spaced apart from said metal strip" are not anticipated or made obvious over the prior art of record in the examiners opinion. For example, Yamamoto et al (JP 06047405) discloses an electric type rolling device which teaches a pair of work rolls (figure 3B, rolls 2 and 5), a power supply for generating a current (power supply 8), a first and second conductive electrode means (rollers 94 and 95) connected to the power supply (8) where the first electrode means is disposed in a location before the work rolls while the second electrode means is disposed in a location after the work rolls (figure 3B). However, prior art of record fails to disclose or

teach the structural limitations of the electrode means, as stated above, nor would there be any motivation to modify the electrode rollers of Yamamoto to incorporate the applicants claimed structure for the electrode means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Suhol whose telephone number is 571-272-4430. The examiner can normally be reached on Mon - Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/615,830

Art Unit: 3725

Page 4

A handwritten signature in black ink, appearing to read "D. Suhol".

Dmitry Suhol

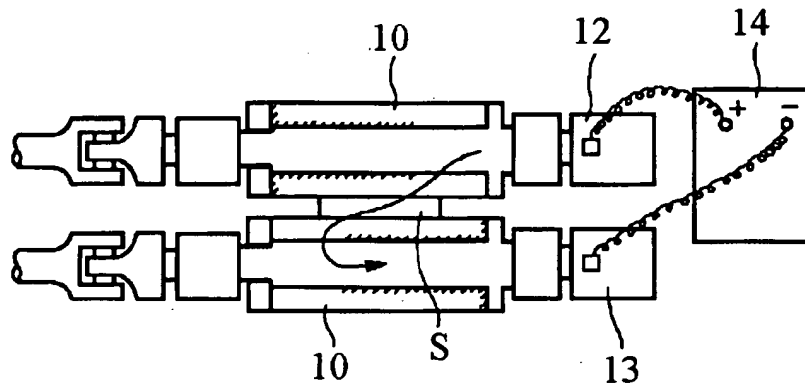
Examiner

Art Unit 3725

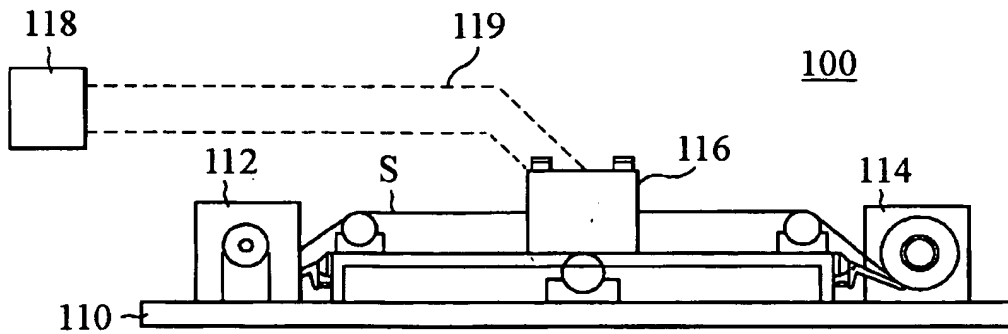
ds

72/202

**Fig. 1**  
**(Prior Art)**

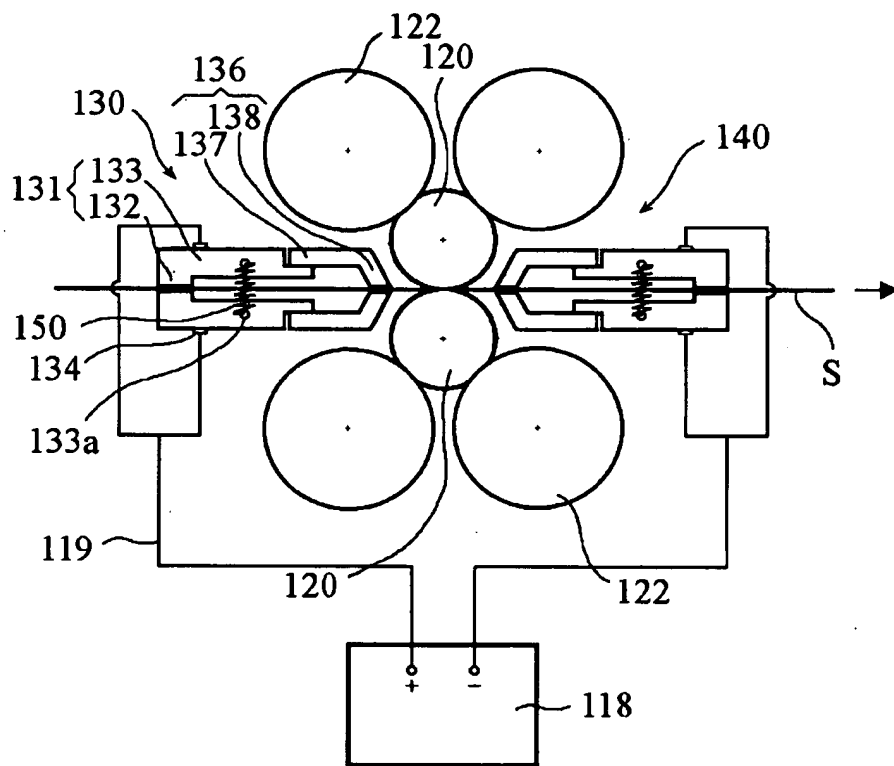


**Fig. 2**



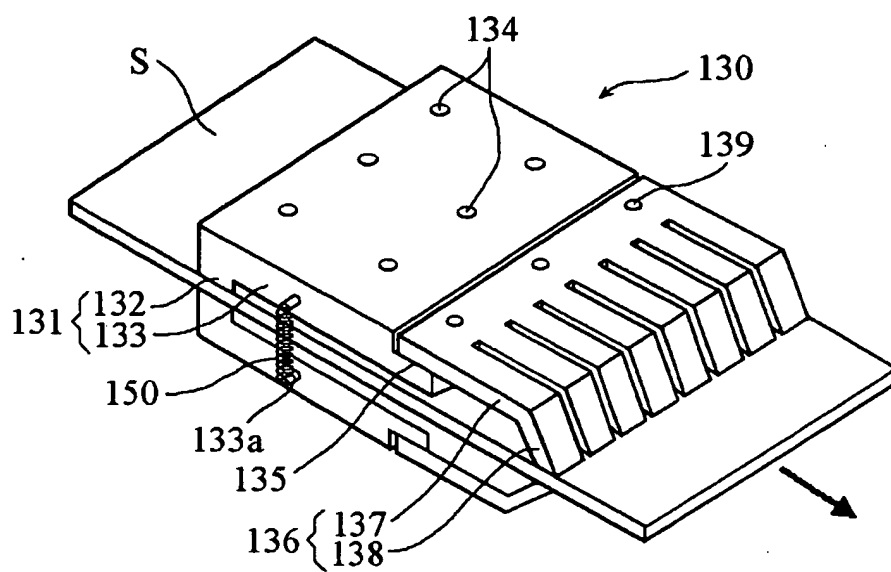
72/2008

**Fig. 3**

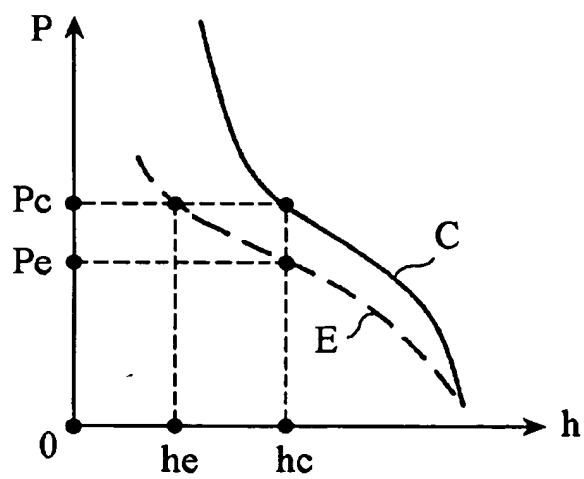


72/202

**Fig. 4**

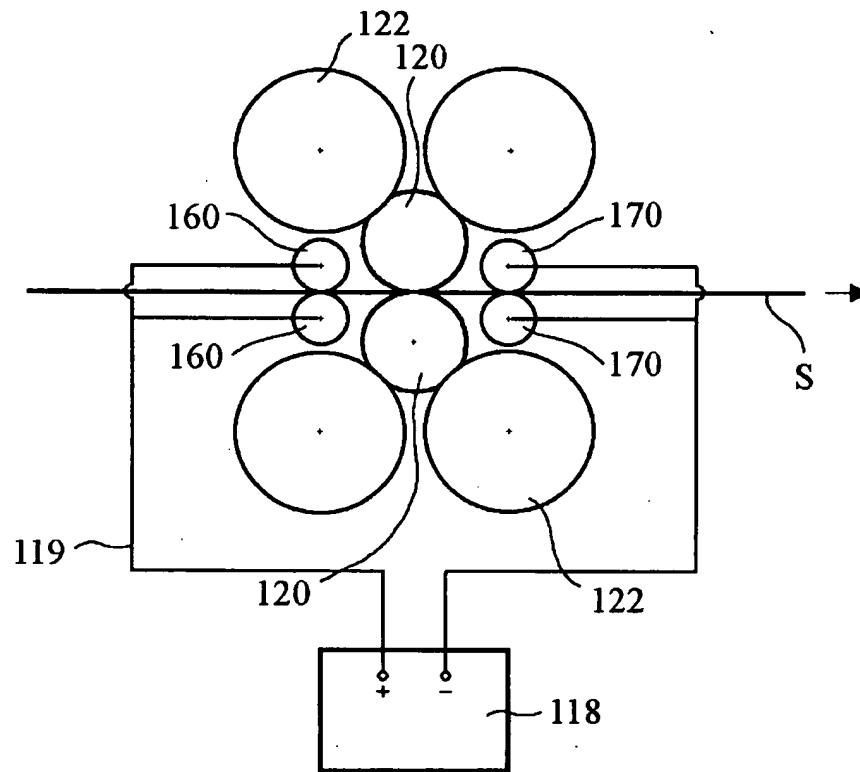


**Fig. 5**



72/202

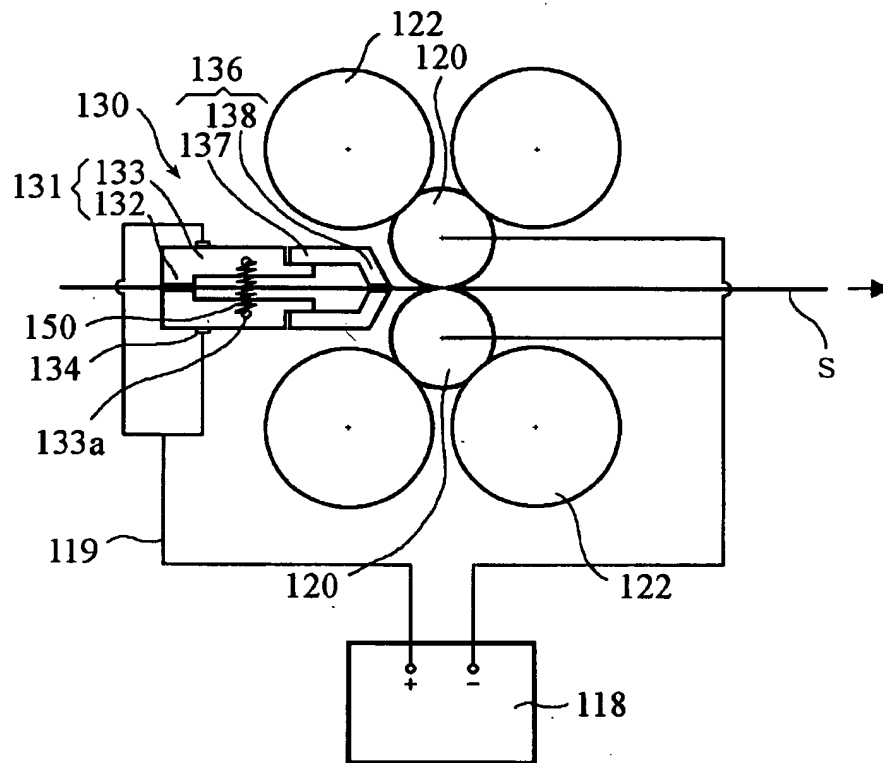
**Fig. 6**





72/202

**Fig. 7**



72/202

**Fig. 8**

